

In the claims:

For the Examiner's convenience, all pending claims are presented below with changes shown in accordance with the mandatory amendment format.

1. (Previously Presented) A method for beamforming in wireless communications, comprising:

identifying one or more target(s) for which a communication signal is intended;

identifying one or more other target(s) which may benefit from receipt of the communication signal; and

developing a multi-lobe beampattern to transmit the communication signal to the intended target(s) and the identified one or more other target(s).

2. (Original) A method according to claim 1, further comprising: transmitting the communication signal to the intended target(s) and the identified other target(s) employing the developed multi-lobe beampattern.

3. (Previously Presented) A method according to claim 1, wherein the wireless communication system implements general packet radio services (GPRS), and wherein identifying the target(s) includes analyzing a received datagram for target information.

4. (Original) A method according to claim 3, wherein the target information includes at least information regarding the intended target(s) of the wireless communication signal.

5. (Original) A method according to claim 4, wherein the information regarding the intended target(s) comprise one or more of an electronic serial number, a media access

controller (MAC) address, a telephone number, an internet protocol (IP) address, and/or an application identifier.

6. (Previously Presented) A method according to claim 3, wherein the target information includes at least one of information regarding the intended targets of the wireless communication signal and intended target(s) of a subsequent wireless communication signal.

7. (Original) A method according to claim 1, wherein developing a multi-lobe beampattern comprises:

identifying a first spatial signature associated with the intended target(s);

identifying a second spatial signature associated with the identified other target(s);

and

modifying one or more transmission characteristics of the communication signal based, at least in part, on the identified first and second spatial signatures to generate a multi-lobe beampattern directed to each of the intended target(s) and the identified other target(s).

8. (Previously Presented) A method according to claim 1, further comprising:

identifying a spatial signature for undesired users; and

modifying the multi-lobe beampattern to facilitate nulling of at least a subset of the undesired user(s) based, at least in part, on the identified spatial signature for the undesired users.

9. (Previously Presented) A transceiver comprising:

wireless communication resources to selectively transmit a wireless communication signal via an antenna array; and

a communications agent, coupled with the wireless communication resources, to:

identify one or more target(s) for which the communication signal is intended as well as one or more other target(s) which may also benefit from receipt of the communication signal, and

develop a multi-lobe beampattern to transmit the communication signal to the intended target(s) and the identified one or more other target(s).

10. (Original) A transceiver according to claim 9, wherein the communications agent analyzes a received datagram for transmission in the communication signal for target information.

11. (Previously Presented) A transceiver according to claim 10, wherein the target information includes at least one of information denoting the intended target(s) and information denoting other target(s) which may benefit from receipt of the communication signal.

12. (Original) A transceiver according to claim 10, wherein the target information comprises one or more of an electronic serial number (ESN), a media access control (MAC) address, an internet protocol (IP) address, a telephone number, and/or an application identifier.

13. (Original) A transceiver according to claim 10, wherein the communications agent identifies a first spatial signature associated with the one or more intended target(s) and a second spatial signature associated with the identified one or more other target(s).

14. (Original) A transceiver according to claim 13, the communications agent comprising: a beamforming engine, to modify one or more transmission characteristics of the

communication signal based, at least in part, on the identified first and second spatial signatures.

15. (Previously Presented) A transceiver according to claim 14, wherein the beamforming engine modifies one or more of a amplitude weight value and/or a phase weight value associated with each of the one or more antennae in the antenna array to generate the developed beampattern.

16. (Previously Presented) A transceiver according to claim 15, wherein the communications agent identifies a spatial signature associated with one or more undesired users of the communication signal, and wherein the beamforming engine modifies one or more attributes of the multi-lobe beampattern to null at least a subset of the undesired users.

17. (Original) A transceiver according to claim 9, further comprising:

a memory system having stored therein content; and
control logic, coupled with the memory system, to access and execute at least a subset of the content to implement the communications agent.

18. (Currently Amended) A machine-accessible storage medium encoded with comprising content which, when executed by an accessing computing device, causes the computing device to:

implement a communications agent to identify one or more target(s) of a communication signal as well as one or more other target(s) which may also benefit from receipt of the communication signal; and
develop a multi-lobe beampattern to transmit the communication signal to the intended target(s) and the identified one or more other target(s).

19. (Previously Presented) A machine-accessible storage medium according to claim 18, wherein the communications agent analyzes a received datagram for transmission in the communication signal for target information.

20. (Previously Presented) A machine-accessible storage medium according to claim 19, wherein the target information includes at least one of information denoting the intended target(s) and information denoting other target(s) which may benefit from receipt of the communication signal.

21. (Previously Presented) A machine-accessible storage medium according to claim 19, wherein the target information comprises one or more of an electronic serial number (ESN), a media access control (MAC) address, an internet protocol (IP) address, a telephone number, and/or an application identifier.

22. (Previously Presented) A machine-accessible storage medium according to claim 19, wherein the communications agent identifies a first spatial signature associated with the one or more intended target(s) and a second spatial signature associated with the identified one or more other target(s).

23. (Previously Presented) A machine-accessible storage medium according to claim 22, wherein the communications agent selectively modifies one or more transmission characteristics of the communication signal based, at least in part, on the identified first and second spatial signatures.

24. (Previously Presented) A machine-accessible storage medium according to claim 23, wherein the communications agent modifies one or more of a amplitude weight value and/or a phase weight value associated with each of the one or more antennae in the antenna array to generate the developed beampattern.

25. (Previously Presented) A subscriber unit comprising:

a communications agent operable to cause a wireless communication resource to:
identify one or more target(s) for which the communication signal is intended
as well as one or more other target(s) which may also benefit from receipt of the
communication signal, and
develop a multi-lobe beampattern to transmit the communication signal to the
intended target(s) and the identified one or more other target(s).